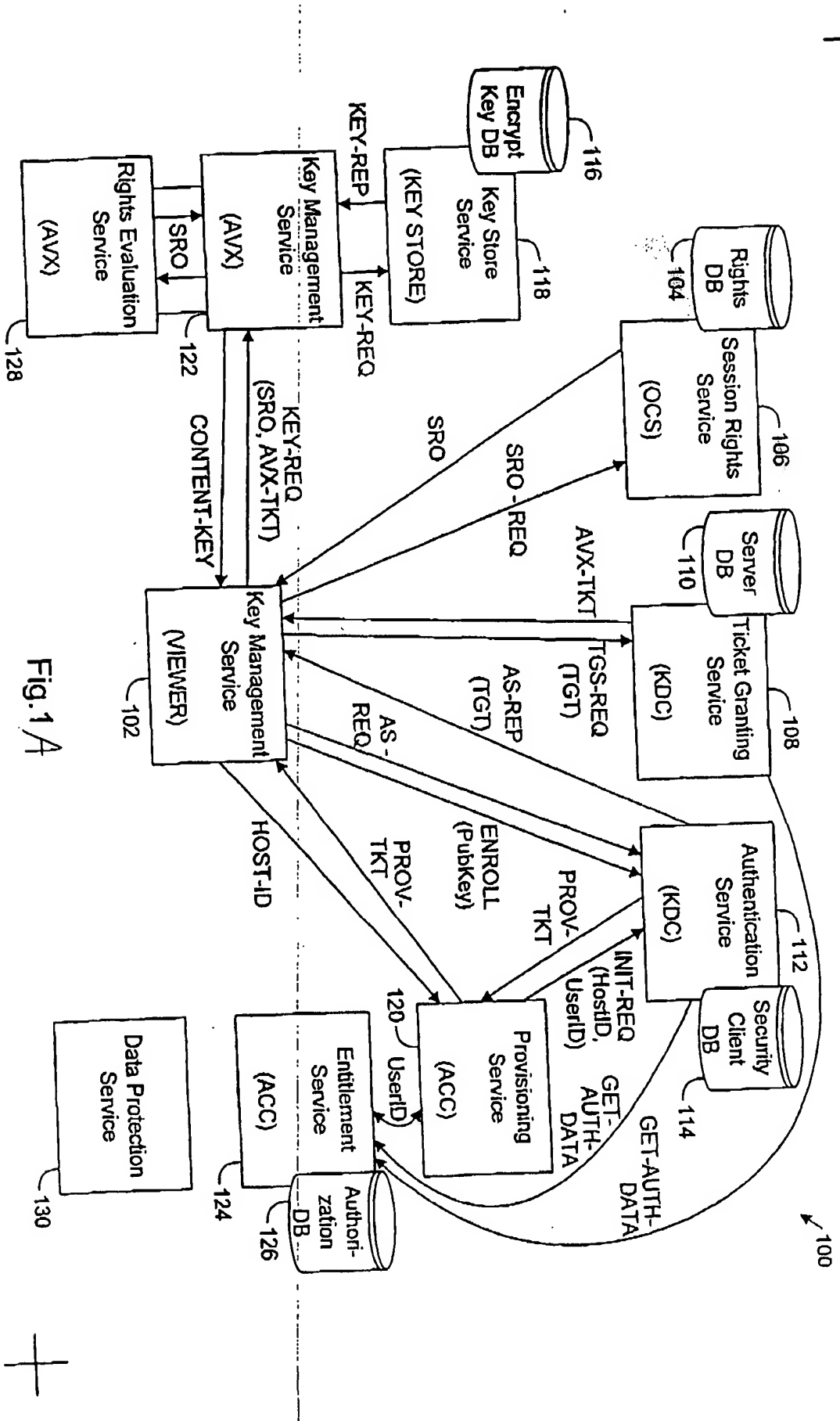
Encrypt Key DB
116
Key Store Service
(KEY STORE)
118
KEY-REP
KEY-REQ
Key Management Service
(AVX)
122
SRO
Rights Evaluation Service
(AVX)
128
Rights DB
104
Session Rights Service
(OCS)
106
Server DB
110
Ticket Granting Service
(KDC)
108
Authentication Service
(KDC)
112
Security Client DB
114
Provisioning Service
(ACC)
Entitlement Service
(ACC)
124
Authori-zation DB
126
Data Protection Service
130
Key Management Service
(VIEWER)
102
SRO
SRO-REQ
AVX-TKT
KEY-REQ (SRO, AVX-TKT)
CONTENT-KEY
TGS-REQ (TGT)
AS-REP (TGT)
AS-REQ
ENROLL (PubKey)
PROV-TKT
HOST-ID
INIT-REQ (HostID, UserID)
PROV-TKT
120
UserID
GET-AUTH-DATA
GET-AUTH-DATA
100

Fig. 1A

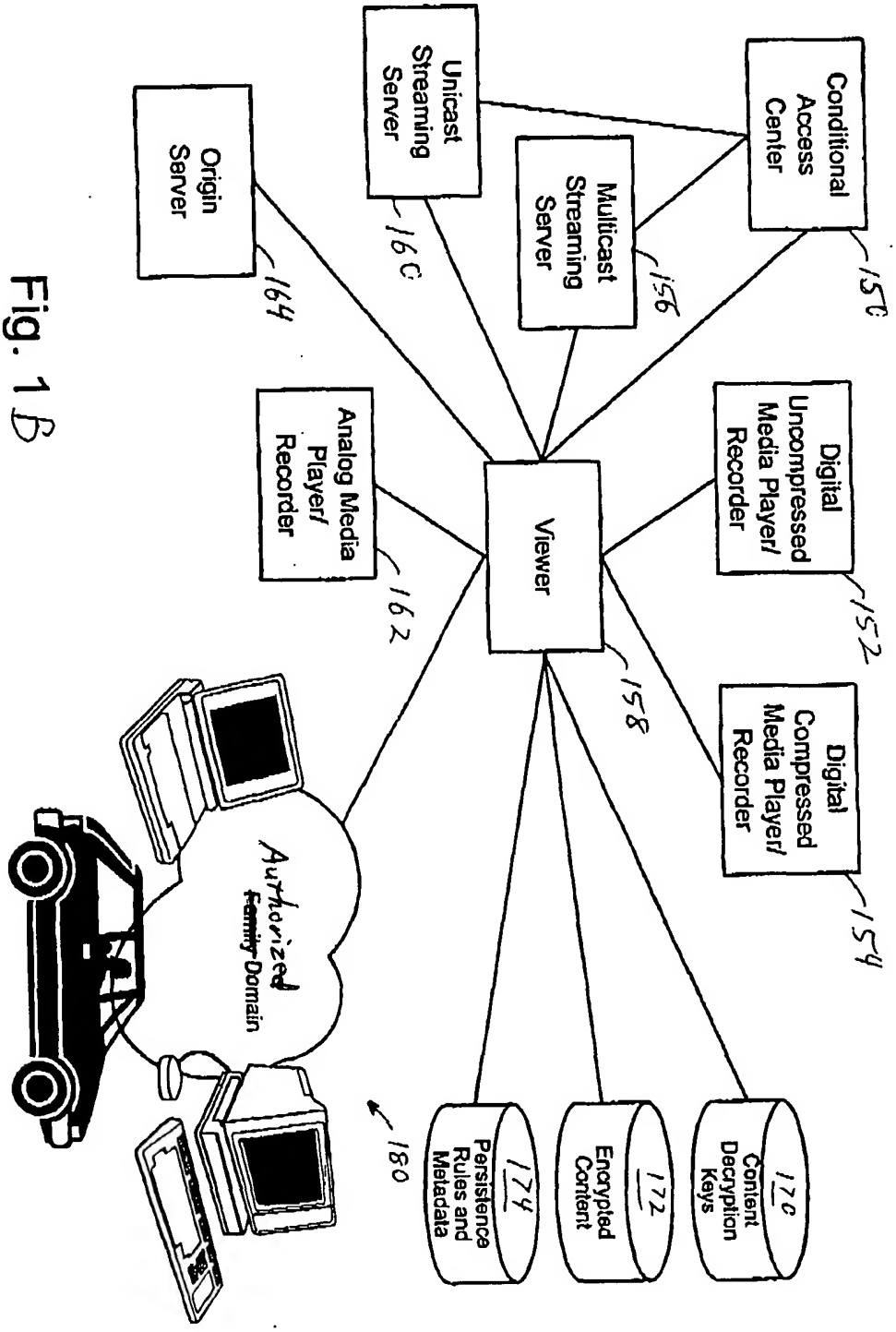
Conditional Access Center
Unicast Streaming Server
Multicast Streaming Server
Origin Server
Digital Uncompressed Media Player/ Recorder
Analog Media Player/ Recorder
Viewer
Digital Compressed Media Player/ Recorder
Content Decryption Keys
Encrypted Content
Persistence Rules and Metadata
Authorized Domain
152
154
156
158
160
162
164
170
172
174
180

Fig. 1B

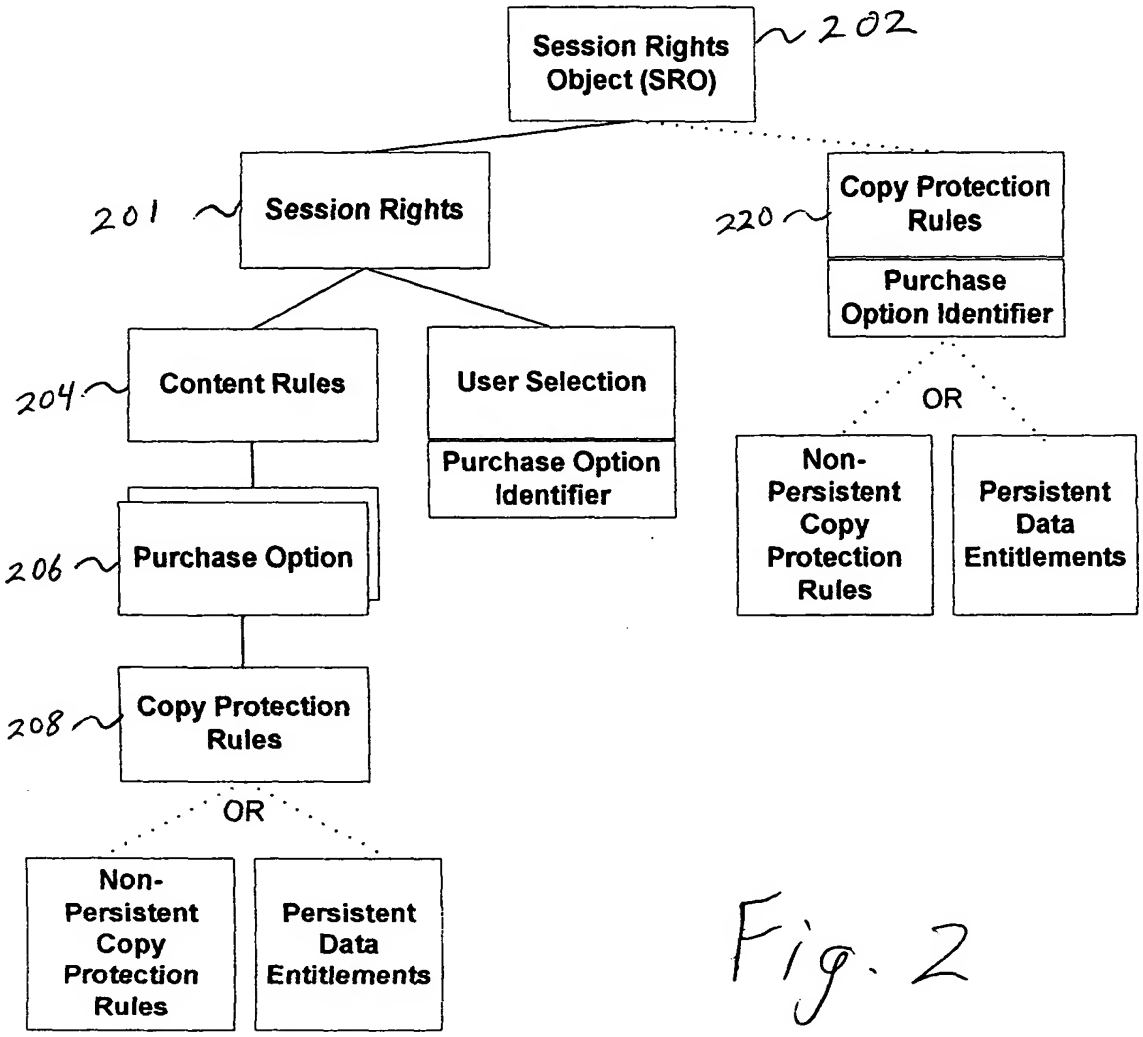
Session Rights Object (SRO)
202
201
Session Rights
220
Copy Protection Rules
Purchase Option Identifier
204
Content Rules
User Selection
Purchase Option Identifier
206
Purchase Option
OR
Non-Persistent Copy Protection Rules
Persistent Data Entitlements
208
Copy Protection Rules
OR
Non-Persistent Copy Protection Rules
Persistent Data Entitlements

Fig. 2

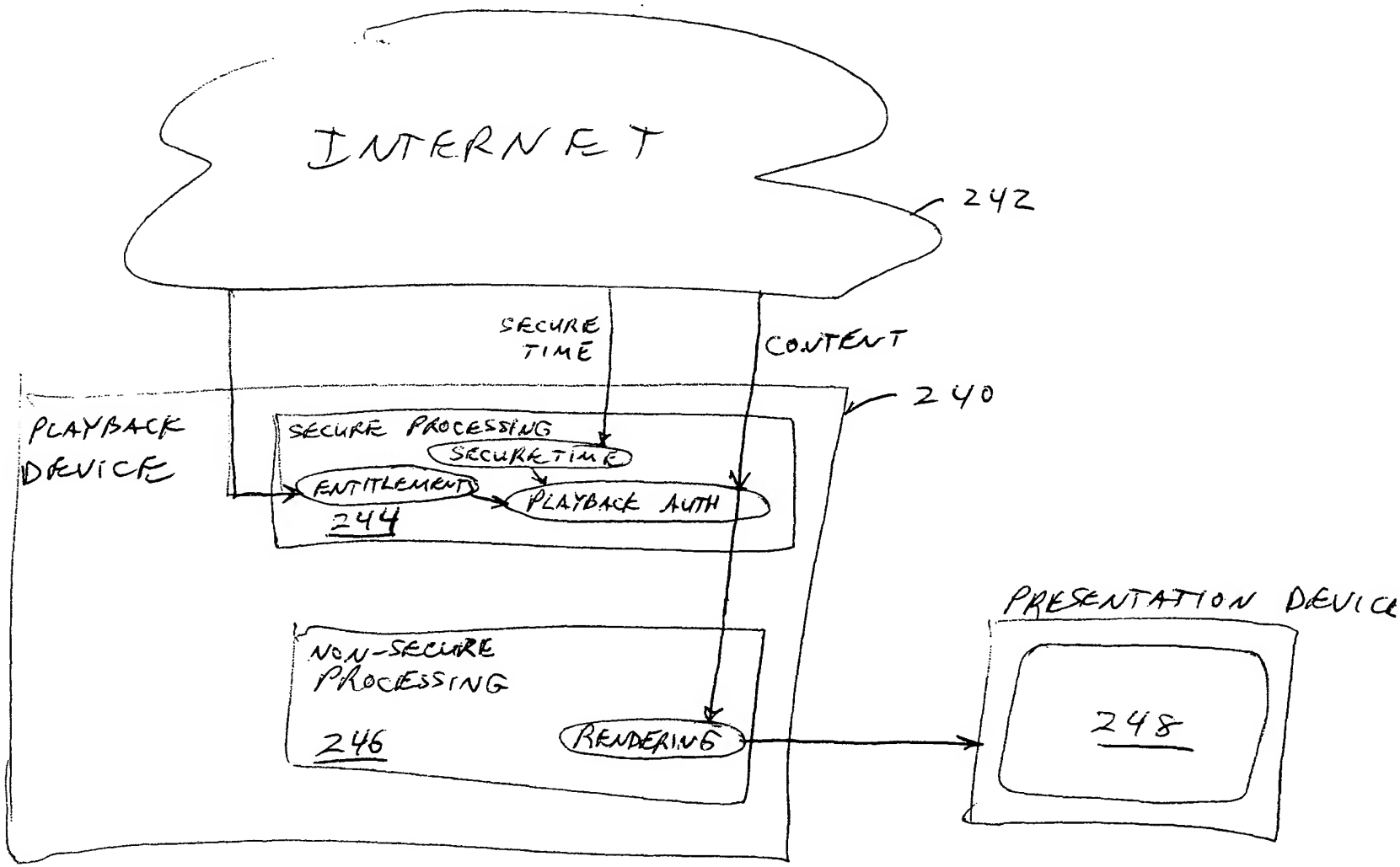
INTERNET
242
SECURE TIME
CONTENT
240
PLAYBACK DEVICE
SECURE PROCESSING
SECURE TIME
ENTITLEMENT
PLAYBACK AUTH
244
NON-SECURE PROCESSING
246
RENDERING
PRESENTATION DEVICE
248

Fig. 3

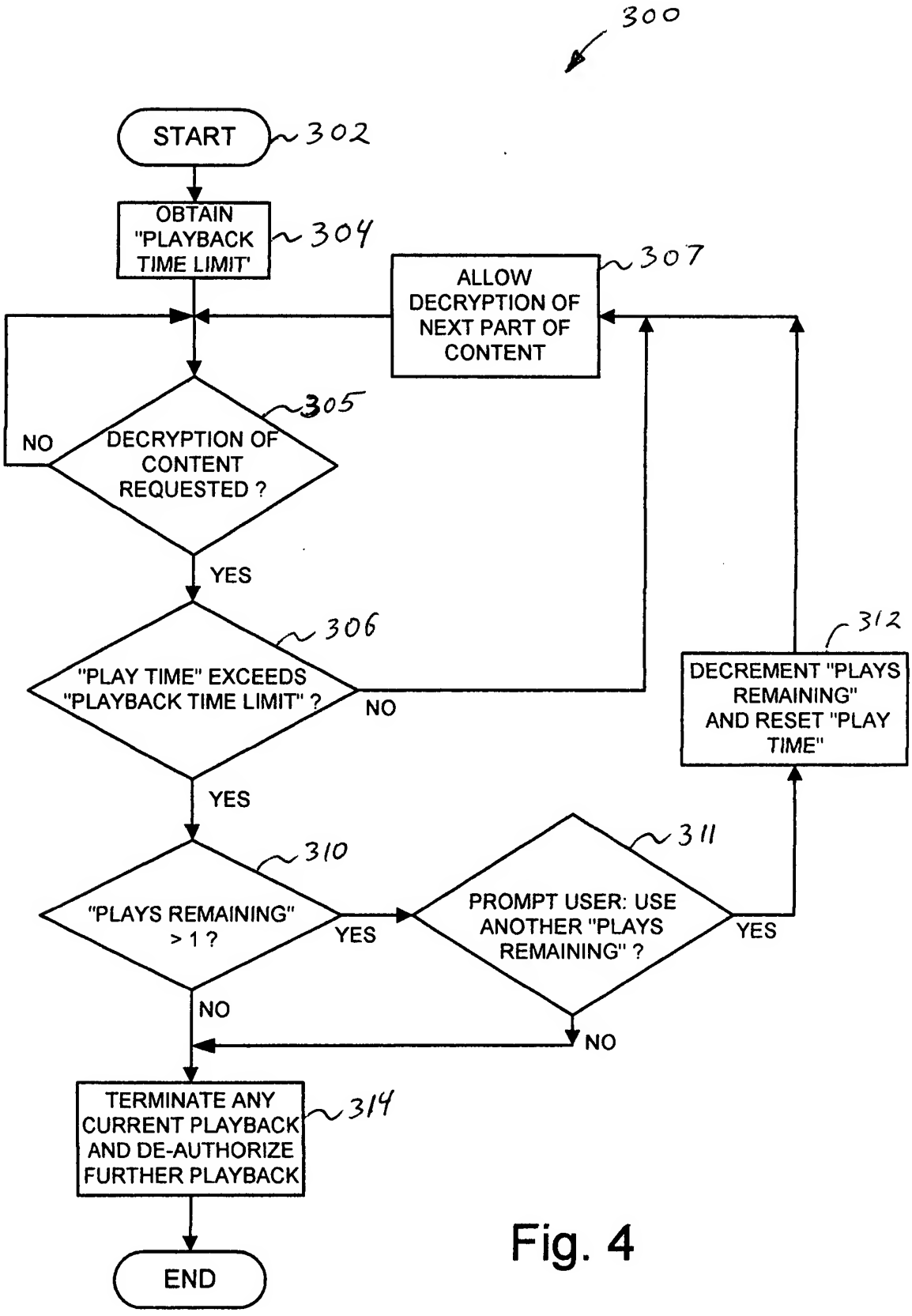
300
START
302
OBTAIN "PLAYBACK TIME LIMIT'
304
ALLOW DECRYPTION OF NEXT PART OF CONTENT
307
DECRYPTION OF CONTENT REQUESTED ?
305
NO
YES
"PLAY TIME" EXCEEDS "PLAYBACK TIME LIMIT" ?
306
NO
YES
DECREMENT "PLAYS REMAINING" AND RESET "PLAY TIME"
312
"PLAYS REMAINING" > 1 ?
310
YES
PROMPT USER: USE ANOTHER "PLAYS REMAINING" ?
311
YES
NO
NO
TERMINATE ANY CURRENT PLAYBACK AND DE-AUTHORIZE FURTHER PLAYBACK
314
END

Fig. 4